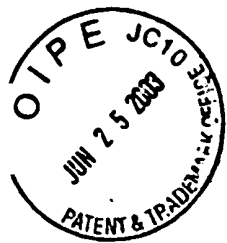


MHLLLVQLLVLLPLGKADLCVDGCQSQGSLSFPLLERGRRDLHVNHEEAEDKPDLFVAVPHLM  
GTSLAGEGQRQRGKMLSRLGRFWKKPETEFYPPRDVESDHVSSGMQAVTQPADGRKVERSPLQE  
EAKRFWHRFMFRKGPAFQGVILPIKSHEVHWETCRTVPFNQTIAHEDCQKVVVQNNLCFGKCSS  
IRFPGEADAHSFCSHCSPTKFTTVHMLNCTSPTPVVKMVMQVEECQCMVKTERGEERLLLAG  
SQGSFIPGLPASKTNP (SEQ ID NO: 2)

## FIGURE 1



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## Construct

GI Number(s): 6753409

G n : 67  
Gen Family: Growth Factor Inhibitor  
G n Subfamily: Cerberus  
G n Sequence: full length cDNA, Mouse

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underlined = deleted in targeting construct  
[ ] = sequence flanking Neo insert in targeting construct

[GGGGGGGGGGGGGGT CAGAGGGAGCTTTCTTTTAGGCCCCGTCATCTGTGAATCTAACCT  
CAGTTTCTGGGAATCAGGAAGCATGCATCTCCTCTTAGTTCAGCTGCTTGTCTCTTGCC  
TCTGGGGAAGGCAGACCTATGTGTGGATGGCTGCCAGAGTCAGGGCTCTTTATCCTTTCC  
TCTCCTAGAAAGGGGTCGCAGAGATCTCCACGTGGCCAACCACGAGGAGGCAGAAGACAA]  
GCCGGATCTGTTTGTGGCCGTGCCACACCTCATGGGCACCAGCCTGGCTGGGGAAGGCCA  
GAGGCAGAGAGGGAAGATGCTGTCCAGGCTTGAAGATTCTGGAAGAAACCTGAGACCGA  
ATTTTACCCCCCAAGGGATGTGGAAGCGATCATGTCTCATCGGGGATGCAGGCCGTGAC  
TCAGCCAGCAGATGGGAGGAAAGTGGAGAGATCACCTCTACAGGAGGAAGCCAAGAGGTT  
CTGGCATCGGTTTCATGTTTCAGAAAGGGCCCCGGCGTTCCAGGGAGTCAT[CCTGCCCCATCAA  
AAGCCACGAAGTACACTGGGAGACCTGCAGGACTGTGCCCTTCAACCAG]ACCATTGCCCCA  
TGAAGACTGTCAAAAAGTCGTTGTCCAGAACAACCTTTGCTTTGGCAAATGCAGTTCCAT  
TCGTTTTCCCGGAGAAGGGGCAGATGCCACAGCTTCTGCTCCCACTGCTCGCCCCACAA  
ATTACACACCGTGCACCTTGATGCTGAAGTGCACACAGCCCAACCCCCGTGGTCAAGATGGT  
GATGCAAGTAGAAGAGTGTCAAGTGCATGGTGAAGACGGAACGTGGAGAGGAGCGCCTCCT  
ACTGGCTGGTTCCAGGGTTCTTTCATCCCTGGACTTCCAGCTTCAAAAACAAACCCATG  
AATTACCTCAACAGAAAGCAAAACCTCAACAGAATAAGTGAGGGTTATTCAATCTGGAAA  
TGTTATGTGAGTTATATAAAGATCAGTGGAAAATATCTTTCTCTCTCTCTCTCTCTCTCTCA  
CACACACACACACACACACACACACACATGTTTGTGTTTAGACAGGGTCTTATGTA  
TTCTCAGCTGGCCTCAAACCTCACAATGTGGCTGGGGATGATTTTAAACTCCTGATCCAAT  
TCCTGAGTGTGGGATTACAGCATGCTCCATAANACATAGCTCCCAGAGGATTTTAA  
AAGAGATTTTGCATGTTTCAAAAGTTGCCTTTGAGACTCAGAAATATTTTGATNTATTGAA  
TGGCCTTGCCACAGATGTGGGAGGCAGCTTGCTTGGTGGCCCAAGTATTTTTTTTTTGT  
CGTTCAGAATTCTCCACATGAAGTTTTTACTGTTGGTTATCTGGCGTTGAAGAAGGAATA  
GTGAAGGTACTTTTAAACAGTTTACACGTGGAAGGGGCTCAGGCACTAGGAACCAACCTTT  
TCCCGGAATATGAGGAAAATACATGAACAGTATTAGAGTCACTTGAGGAAGTTACTAGGA  
AACGCCATAAGTCTCCAAGTACATTGTGAGTCATTTTGAAGGACAATCGTGTATATAGAC  
GAAATCTTCTACTCGTATGCTTTTGAATCTTCTAGCAAGTTAGGTTTCTATGTTTGGGCT  
TCTTCTATTGTCTAAGAGTATGTGTGACAAATTCAACCTGACAAATACCTCAATGGCAA  
ATTCTGACCCTG (SEQ ID NO:1)

Gene Sequence  
Structure \*

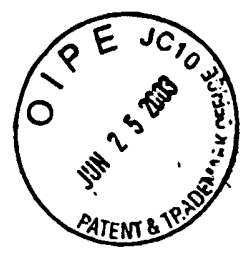
241 bp

Sequence Deleted

528 bp

Size of full-length cDNA: 1752 bp

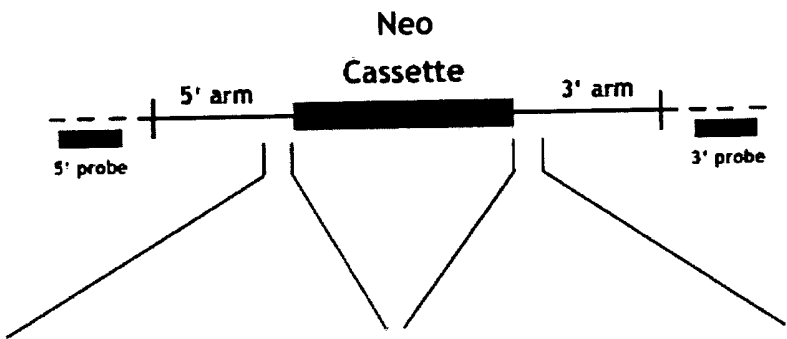
FIGURE 2A



Targeting Vector\* (genomic sequence)

Construct Number: 269

Arm Length:  
5': 2 kb  
3': 1.7 kb

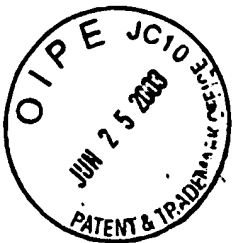


———— Targeting Vector  
- - - - - Endogenous Locus

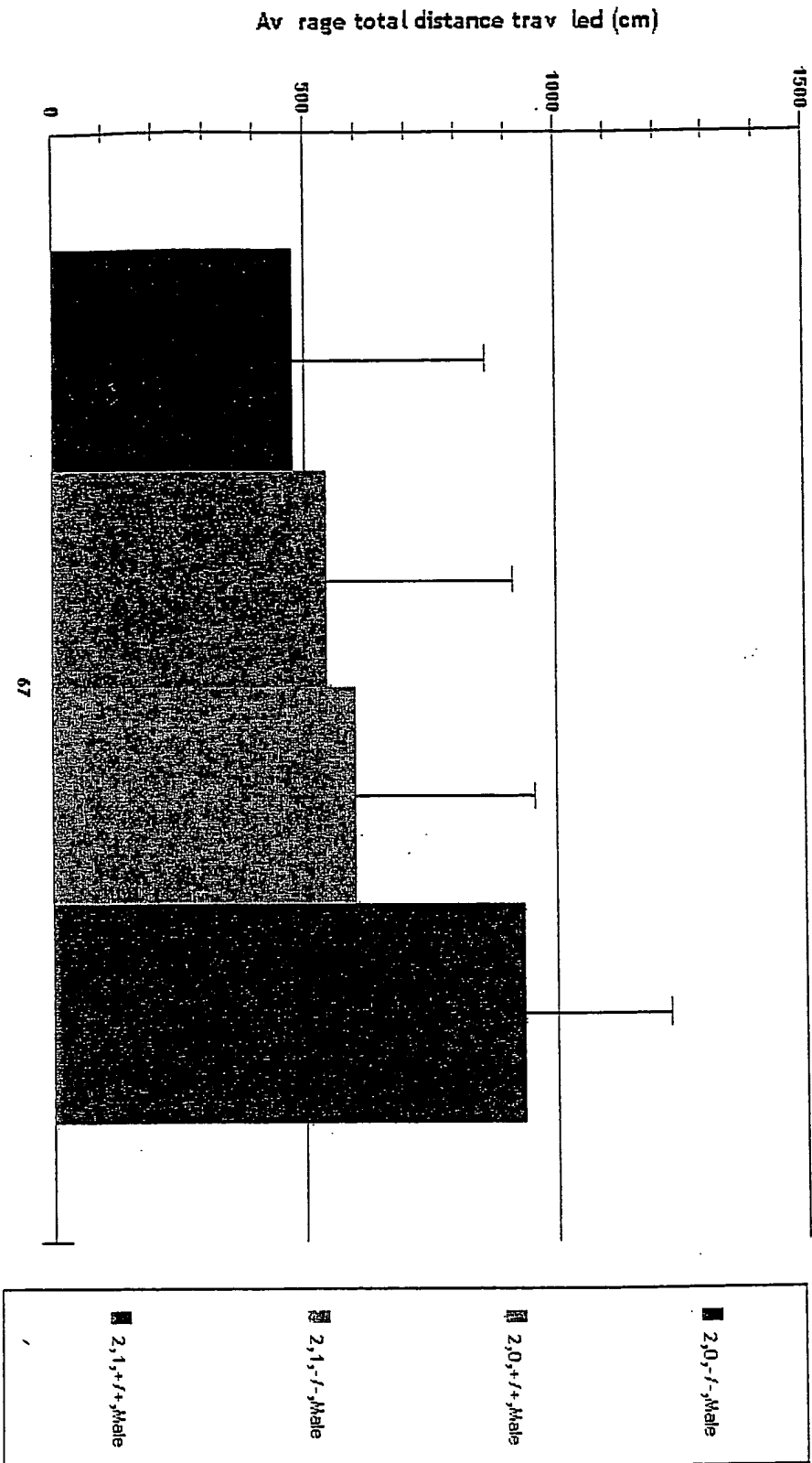
\* Not drawn to scale

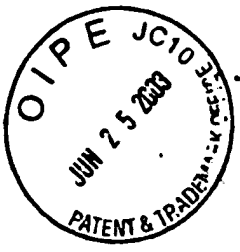
<b>5'</b> >TCCATCTGTGAATCTAACCTC AGTCTCTGGGAATCAGGAAGCATG CATCTCCTCTTAGTTCAGCTGCTT GTTCTCTTGCCTCTGGGGAAGGCA GACCTATGTGTGGATGGCTGCCAG AGTCAGGGCTCTTTATCCTTTCCT CTCCCAGAAAGGGTTCGCAGAGAT CTCCACGTGGCCAACCACGAGGAG GCAGAAGACAA< <b>3'</b> SEQ ID NO: 3	<b>5'</b> >CCTGCCCCATCAAAAGCCACGA AGTACACTGGGAGACCTGCAGGAC TGTGCCCTTCAACCAGGTATGCAT TCTAGAGGGTAAACCACCAGTTTG CCAGACAGGGAGGACAGCTGGACA GCTAGGACAAACGGCAAAATAGAA AGAGTCTGGCGAGAGCTCGGGCCT TGTCTAGTTCCAGATTCAGTCCTT TGGGTATTCAT< <b>3'</b> SEQ ID NO: 4
--	---

FIGURE 2B



# Phenotypic Data Summary - Open Field





## Phenotypic Data Summary - Tail Suspension

